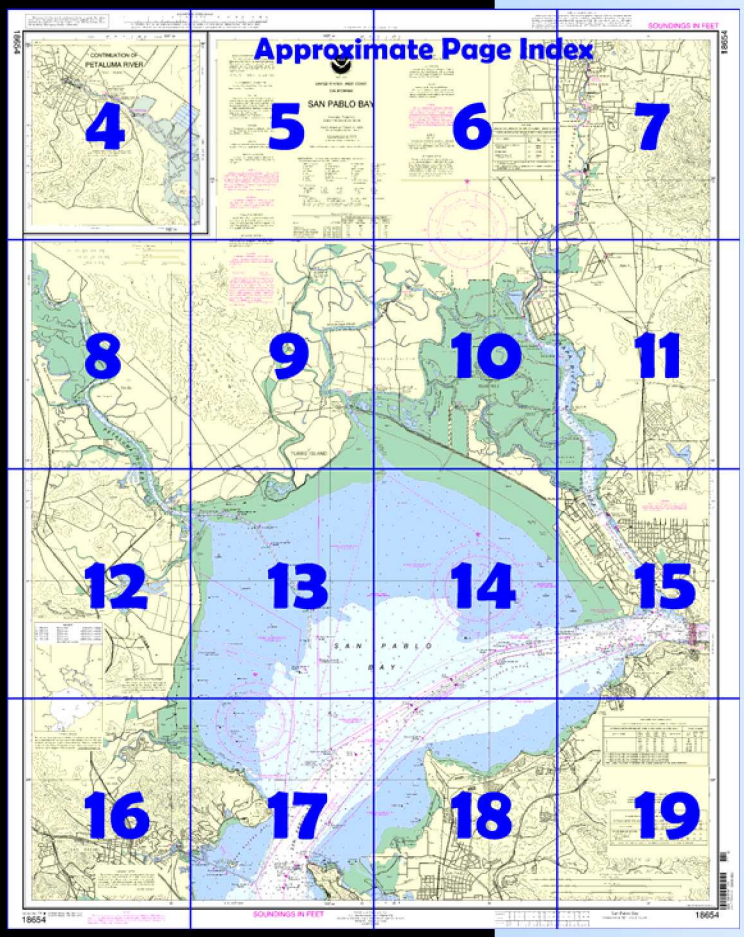
BookletChart™

San Pablo Bay

(NOAA Chart 18654)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ *Complete, reduced scale nautical chart*
- ☑ *Print at home for free*
- ☑ *Convenient size*
- ☑ *Up to date with all Notices to Mariners*
- ☑ *United States Coast Pilot excerpts*
- ☑ *Compiled by NOAA, the nation's chartmaker.*

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Home Edition (not for sale)

Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
301-713-2770

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

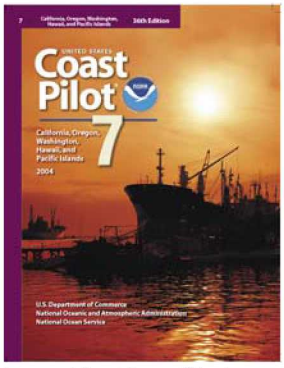
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 7 excerpts]

(479) **San Pablo Bay**, is nearly circular, 10 miles long in a NE direction, with a greatest width of 8 miles. The N part consists of low marshes intersected by numerous sloughs and a large area of shoal water and mudflats that bare at extreme low water. The S shore is bolder, except between Point San Pablo and Pinole Point, where it is low and marshy for about 3 miles. Carquinez Strait joins San Pablo Bay with Mare Island Strait and Suisun Bay at its E extremity. There is considerable traffic through the bay. Deep-draft oil tankers and sugar-laden vessels pass through the bay bound for Crockett and Martinez. Lighter draft vessels pass through bound for points on Suisun Bay, and the Sacramento River to Sacramento, and on the San Joaquin River to Stockton.

(484) **Pinole Point** is a moderately high, rocky bluff, projecting about 1 mile from the SE shore of San Pablo Bay. A T-head fishing pier extends NW from the E side of the point. Piles and a light are off the face of the pier. The ruins of a former wharf extend from the E side of the point, and numerous oil tanks are on the hills about 2 miles in back of it. About 3.5 miles E of Pinole Point, the black and white tank at a chemical fertilizer plant is prominent. A pleasure fishing pier and a small-craft harbor are at **Lone Tree Point,** 4.6 miles E from Pinole Point. A steel skeleton tower is 0.6 mile S of Lone Tree Point. **Oleum,** on **Davis Point,** is an oil town. There are many prominent oil tanks, painted in pastel colors, on the hills back of the town. Six stacks in a line SE of Davis Point are also prominent.

(488) **Gallinas Creek** enters San Pablo Bay about 1.5 miles NW of Point San Pedro. The entrance channel, marked by private markers on the N side, leads across flats to the mouth of the creek. In April 1983, the channel had a controlling depth of 2 feet. Local knowledge is advised. Overhead cables crossing the creek have a minimum clearance of 65 feet.

(489) **Petaluma River** enters San Pablo Bay on the NW side. The city of **Petaluma,** 12 miles above the mouth, is the center of an extensive dairy and egg industry. The river is used by pleasure craft and by barges handling gravel, oyster shell, heavy construction equipment, and prestressed concrete products.

(502) **Napa River**, the continuation of Mare Island Strait above the naval shipyard, is used by barges and pleasure boats. Barge traffic on the river is in crushed rock, salt, and steel. A dredged channel leads from the Vallejo-Mare Island Causeway Bridge to a turning basin at **Jacks Bend,** thence to the head of navigation at the 3rd Street Bridge in **Napa,** 13 miles above the causeway bridge. In April 1999, the midchannel controlling depth was 8 feet from the Vallejo-Mare Island Causeway Bridge to **Horseshoe Bend.** A Federal project provides a depth of 10 feet from Horseshoe Bend to the upstream limit of the channel. Napa River is marked to Horseshoe Bend by a buoy and daybeacon, lights, and a **183**° lighted range.

(506) A small-craft basin is on the W side of Napa River opposite **Bull Island,** 8 miles above the Vallejo-Mare Island Causeway, and several other small-craft facilities are elsewhere on the river.

Table of Selected Chart Notes

NOTE C
GALLINAS CREEK
Local knowledge is advisable.

Corrected through NM Jan. 26/08
Corrected through LNM Jan. 15/08

HEIGHTS

Heights in feet above Mean High Water.

NOTE E
CAUTION

Mariners are warned that numerous uncharted piles, shoals, and obstructions have been reported in Petaluma River.

MINERAL DEVELOPMENT STRUCTURES

Obstruction lights and sound (fog) signals are required for fixed mineral development structures shown on this chart, subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67).

Mercator Projection
Scale 1:40,000 at Lat 38°08'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

CAUTION
SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area *Cable Area*

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.292" southward and 3.910" westward to agree with this chart.

CAUTION
BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Mt. Pise, CA KHB-49 162.40 MHz WX2

NOTE D
CAUTION

Mariners are warned that numerous uncharted piles, snags, pipes, shoals, obstructions, and wrecks, some submerged, may exist along the edge of the waterway.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

PINOLE SHOAL CHANNEL

Vessels weighing less than 1600 gross tons or tugs with tows weighing less than 1600 gross tons are not permitted to enter or cross over Pinole Shoal dredged channel.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.

Refer to charted regulation section numbers.

SAN RAFAEL CREEK

The controlling depth was 3 feet for a mid-width of 50 feet from the channel entrance 37°57'30"N, 122°27'34"W, to the mouth of San Rafael Creek; thence 3 feet for a width of 30 feet to the turning basin, 4 feet in the turning basin centered at 37°58'08"N, 122°31'03"W, thence 2 feet for a width of 60 feet to the Grand Ave. Bridge, except for shoal to bare for last 125 feet.

Jan 2008

Additional information can be obtained at nauticalcharts.noaa.gov.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

NAPA RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 1999

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
HORSESHOE BEND TO BASIN AT JACKS BEND	7.2	MIDDLE 50 FT	4-99
TURNING BASIN	6.9	100-250	4-99
THENCE TO HEAD OF NAVIGATION (3RD ST.)	A4.6	MIDDLE 50 FT	4-99

A. SHOALING TO 2.8 FEET AROUND BEND AT 38°17'43"N, 122°16'55"W AND TO 4.0 FEET AT 38°17'30"N, 122°16'57"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHIS whistle
Y yellow

Bottom characteristics:

Blds boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:

AUTH authorized
ED existence doubtful
Obstn obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

LOGARITHMIC SPEED SCALE

1 2 3 4 5 6 7 8 9 10 15 20 25 3

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing div
right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the sp

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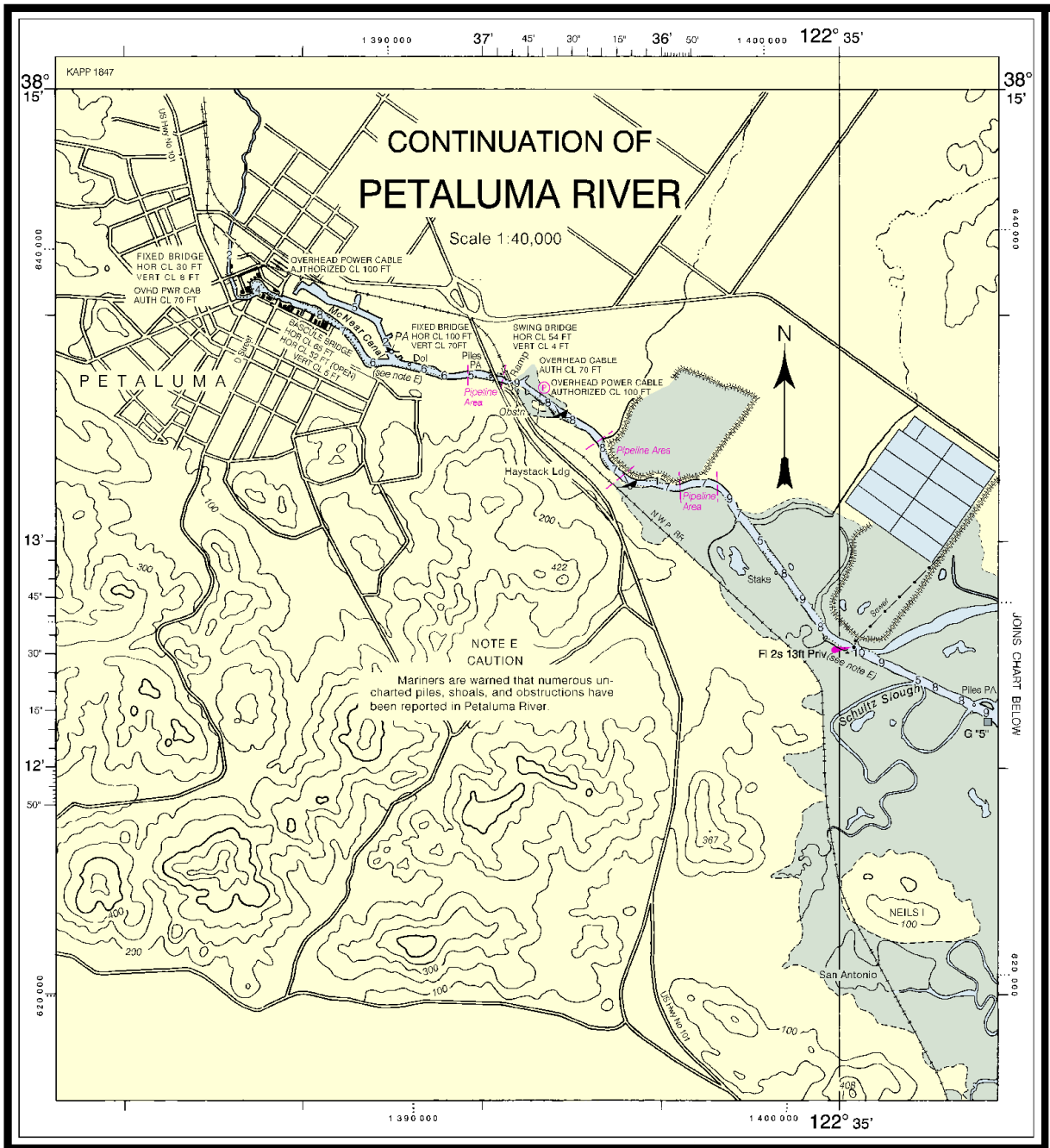

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this chart. Not
marine cables

4

North

Printed at reduced scale. ~~SCALE 1:40,000~~ Nautical Miles See Note on page 5.

1 ½ 0 1 2 3

Yards

1000 0 1000 2000 3000 4000 5000

30 40 50 60

divider spread, place

speed is 16.0 knots.

Formerly C&GS 5533, 1st Ed., Jan. 1906 G-1954-861 KAPP 1846

122° 25' 24' 45" 30' 15" 23' 50"

EATHER RADIO BROADCASTS

AA Weather Radio station listed
les continuous weather broadcasts.
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LEMENTAL INFORMATION

U.S. Coast Pilot 7 for important
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CAUTION

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AIDS TO NAVIGATION

U.S. Coast Guard Light List for
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RADAR REFLECTORS

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CAUTION

RINE PIPELINES AND CABLES

ubmarine pipelines and submarine
ubmarine pipeline and cable areas

Area Cable Area

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cables may exist within the area of
lot all submarine pipelines and sub-
es are required to be buried, and

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

CALIFORNIA

SAN PABLO BAY

Mercator Projection
Scale 1:40,000 at Lat 38°08'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

CAUTION

BASCULE BRIDGE CLEARANCES

For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

NOTE B

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the San Francisco Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual.

All of the San Pablo Bay is within the VTS area with the exception of the Petaluma River Entrance Channel.

NOTE D

CAUTION

Mariners are warned that numerous uncharted piles, snags, pipes, shoals, obstructions, and wrecks, some submerged, may exist along the edge of the waterway.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.292" southward and 3.910' westward to agree with this chart.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mk marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

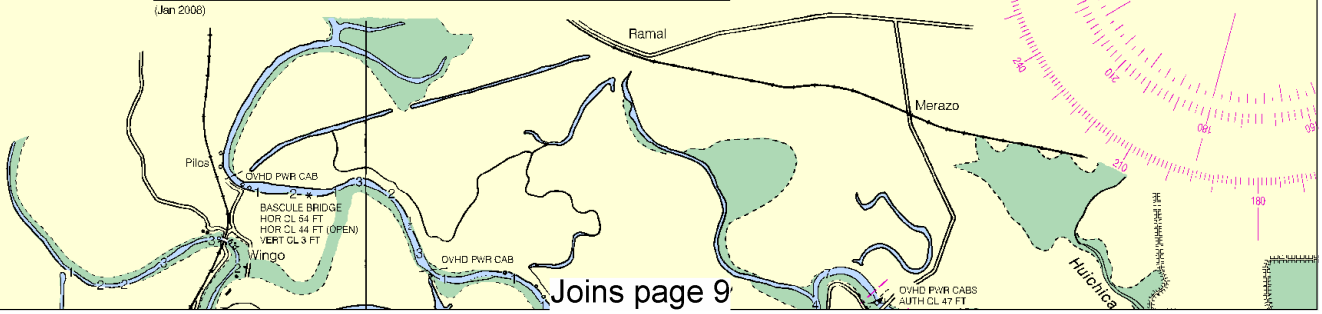
21 Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Point Orient	(37°58'N/122°26'W)	6.0	5.4	1.1
Hercules, Refugio Landing	(38°01'N/122°18'W)	6.1	5.5	1.0
Mare Island, Carquinez Strait	(38°04'N/122°15'W)	5.9	5.3	1.0
Petaluma River Entrance	(38°07'N/122°30'W)	6.1	5.6	1.0
Sonoma Creek	(38°09'N/122°24'W)	5.0	5.0	0.8

Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

(Jan 2008)



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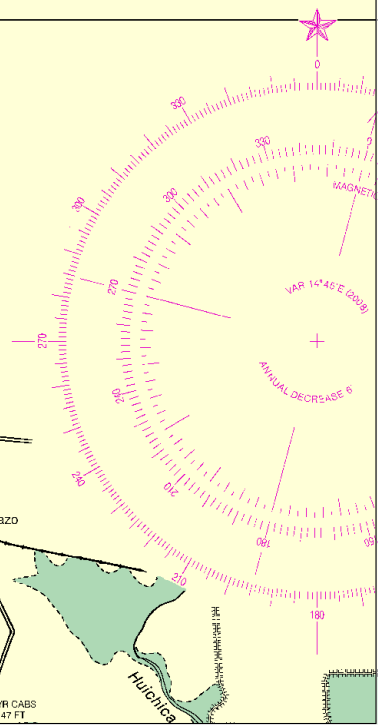

Joins page 6

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

Formerly C&GS 5533, 1st Ed., Jan. 1906 G-1954-861 KAPP 1840

122° 25' 24' 45" 30' 15" 23' 50" 20'

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - WEST COAST

CALIFORNIA

SAN PABLO BAY

Mercator Projection
Scale 1:40,000 at Lat 38°08'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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Joins page 5

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)
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TIDAL INFORMATION

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(Jan 2008)

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Heights in feet above Mean High Water.

AUTHORITIES
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TABULATED FROM
CONTROLLING
NAME OF CHAN
HORSESHOE BE
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TURNING BASIN
THENCE TO HEA
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A. SHOALING TO
AT 38°17'50"N,
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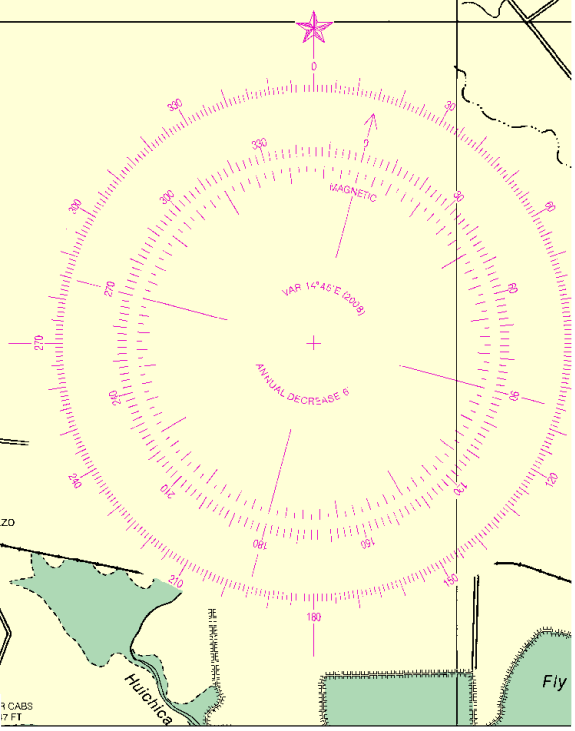
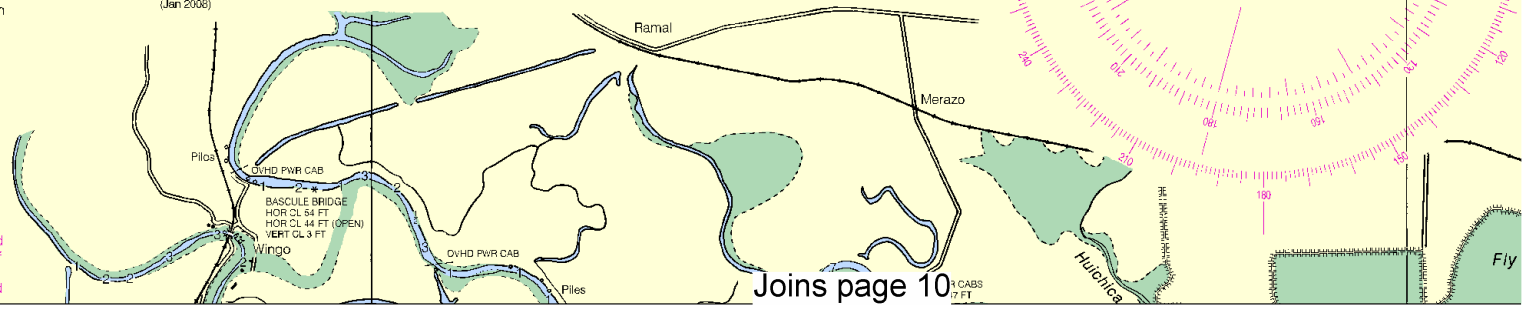




Joins page 10

Printed at reduced scale. SCALE 1:40,000 See Note on page 5.

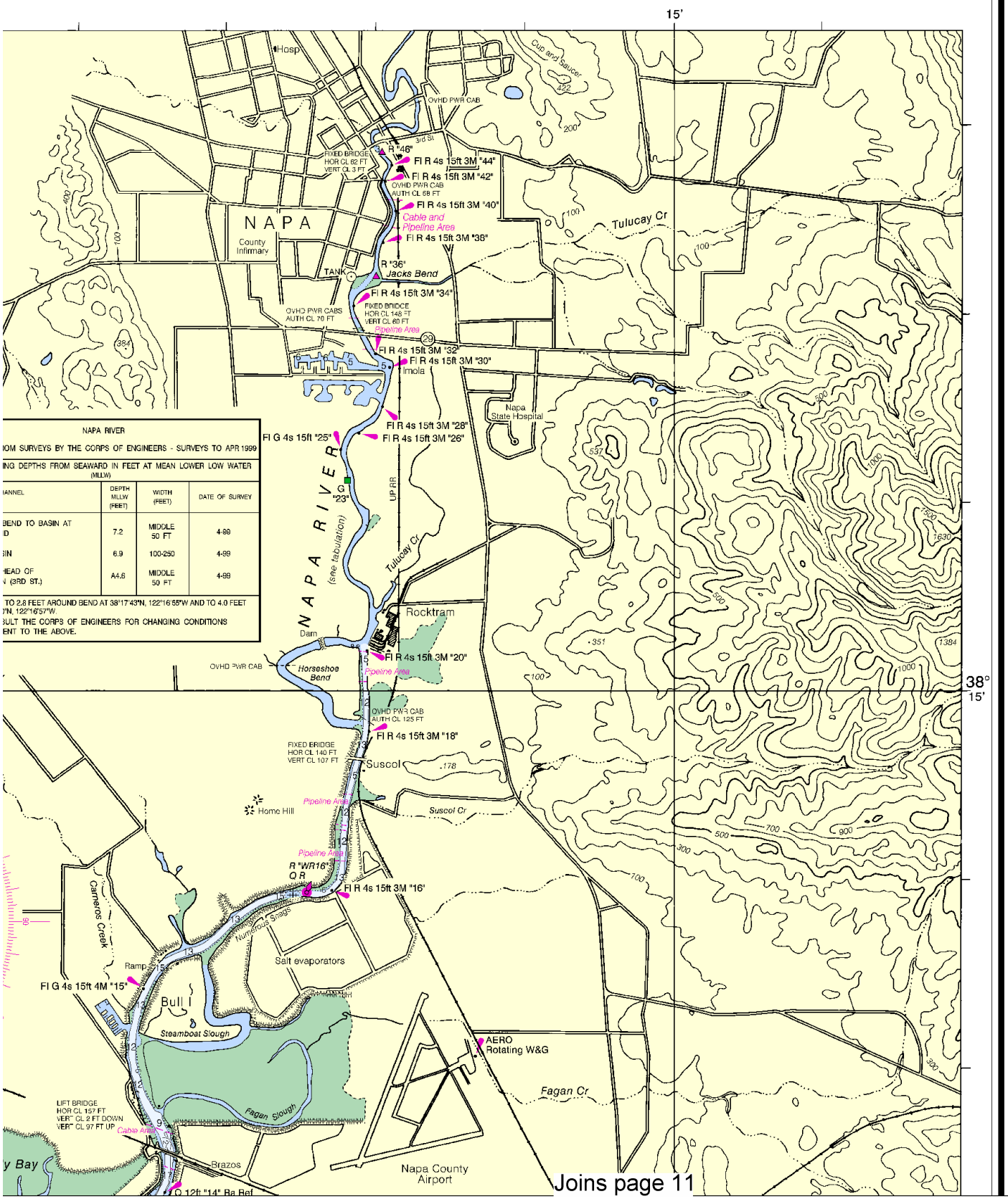
Nautical Miles
1 ½ 0 1 2 3

Yards
1000 0 1000 2000 3000 4000 5000

North

SOUNDINGS IN FEET

18654

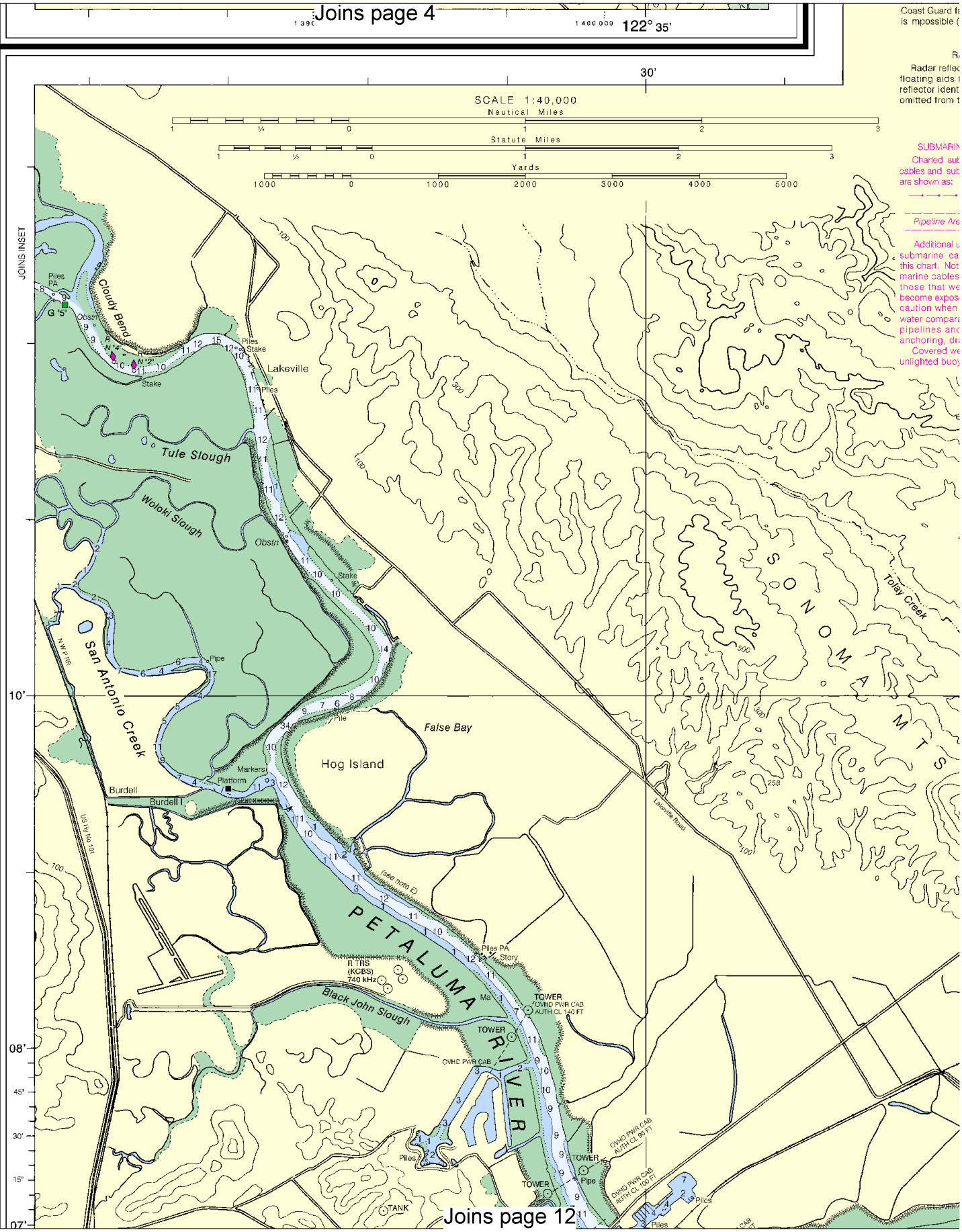


NAPA RIVER			
OM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 1999			
NG DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
ANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
BEND TO BASIN AT D	7.2	MIDDLE 50 FT	4-99
IN	6.9	100-250	4-99
HEAD OF (3RD ST.)	A4.6	MIDDLE 50 FT	4-99
TO 2.8 FEET AROUND BEND AT 38°17'43"N, 122°16'55"W AND TO 4.0 FEET N, 122°16'57"W.			
BULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS ENT TO THE ABOVE.			

Joins page 11

This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0510 2/2/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: n/a .

Joins page 4



Joins page 12

Coast Guard f
is impossible (

R
Radar reflec
floating aids
reflector ident
omitted from t

SUBMARIN
Charted sub
cables and sub
are shown as:

Pipeline Are

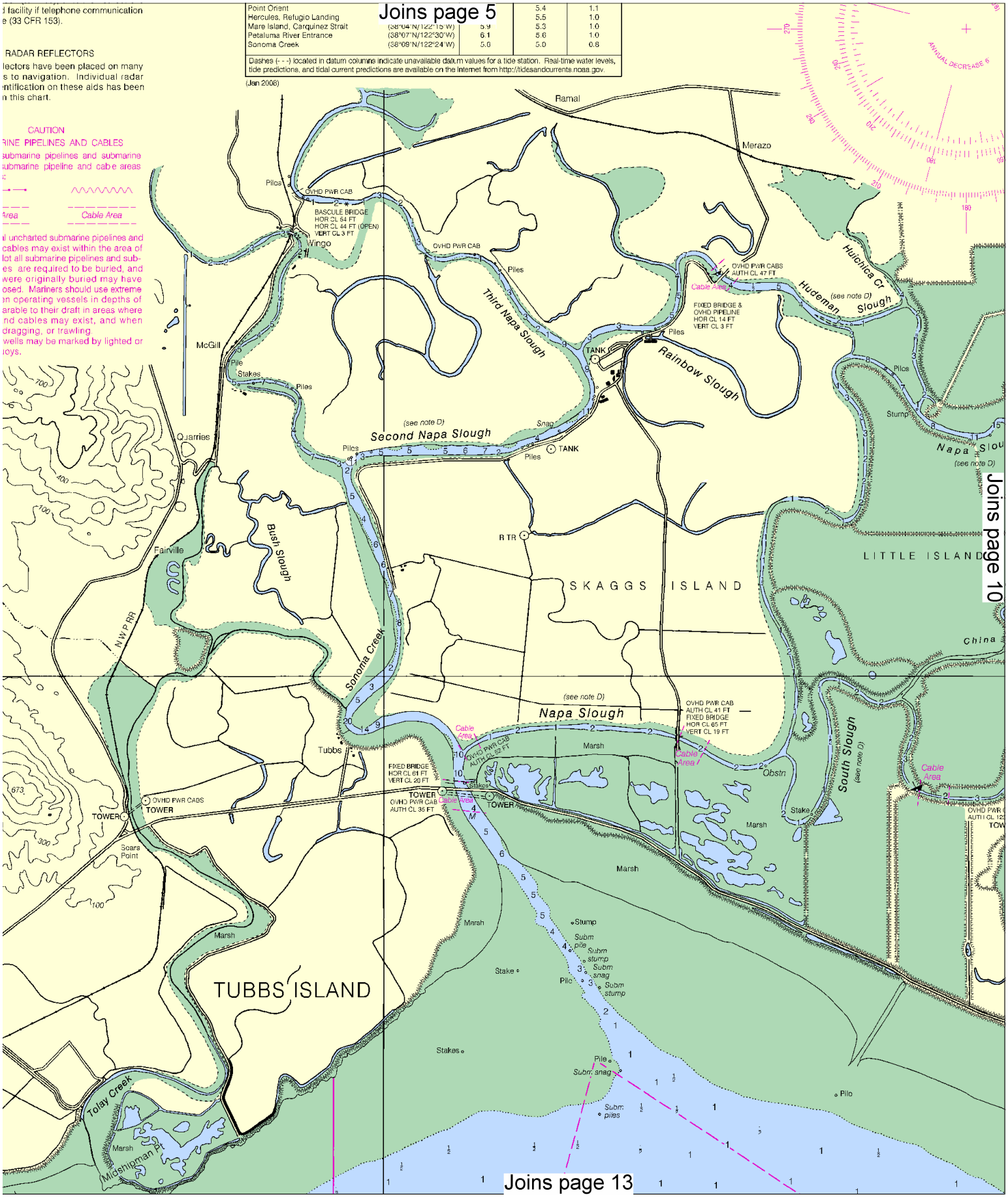
Additional u
submarine ca
this chart. Not
marine cables
those that we
become expos
caution when
water compara
pipelines and
anchoring, dra
Covered we
unlighted buoy

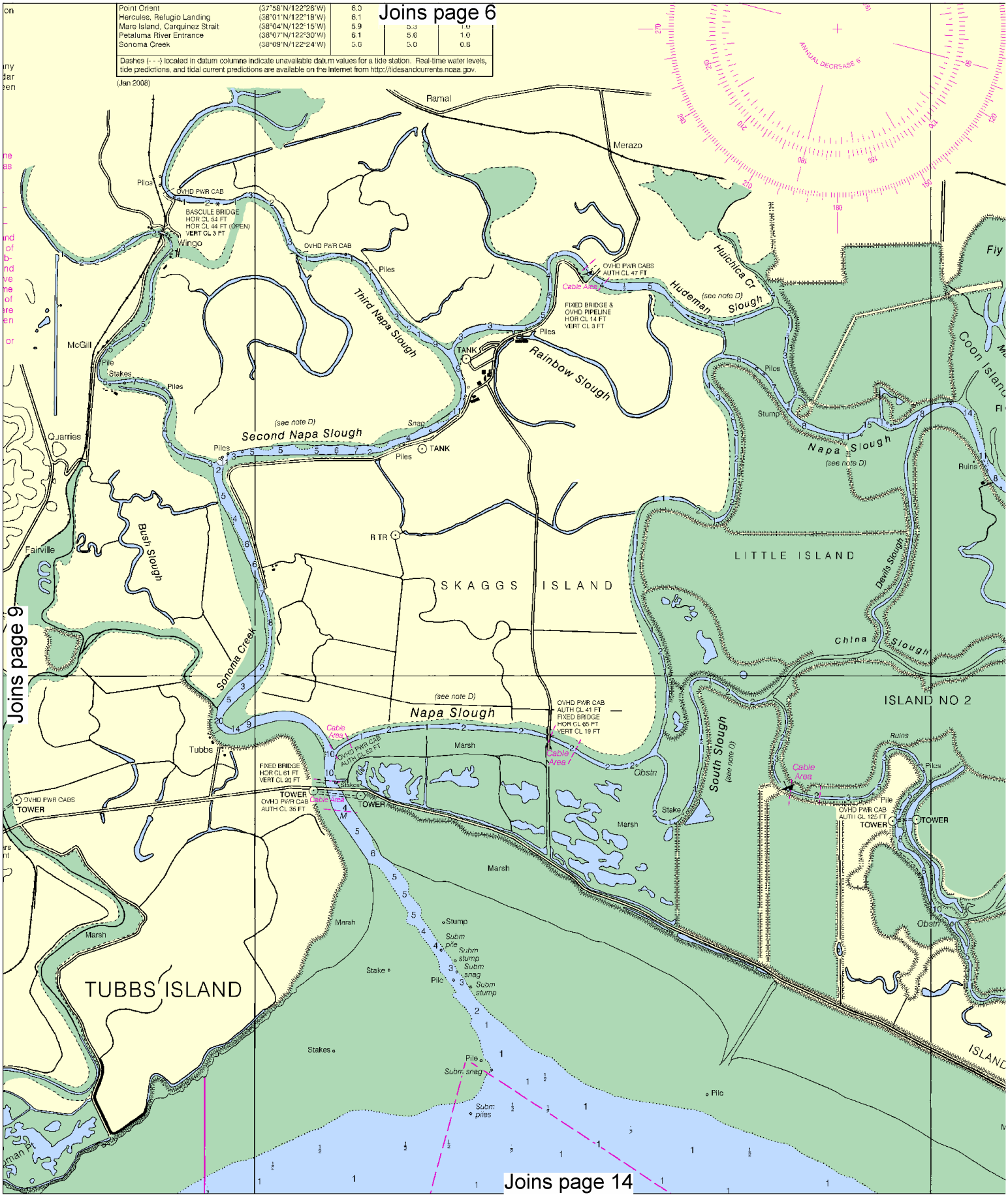
North

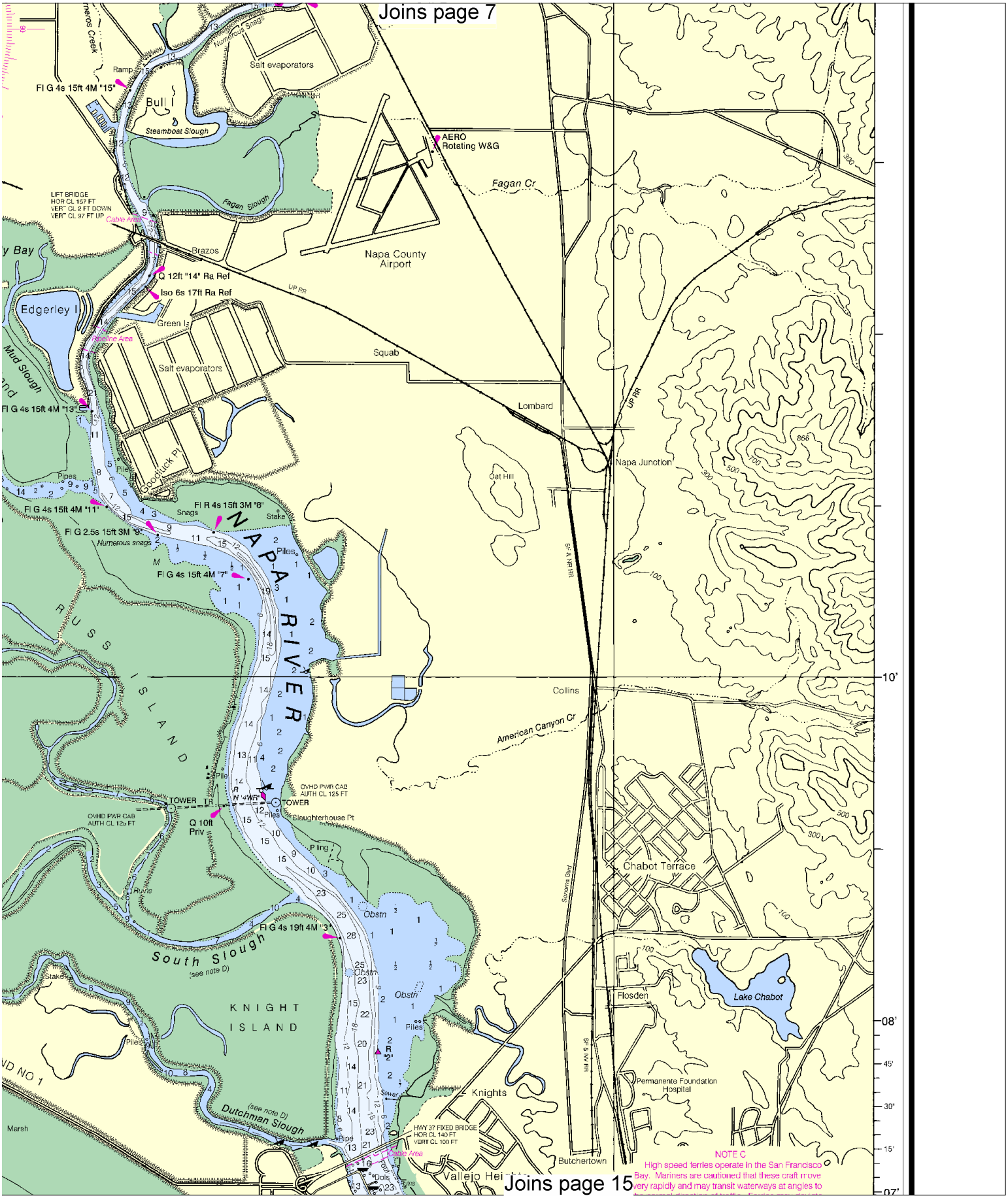
Printed at reduced scale.

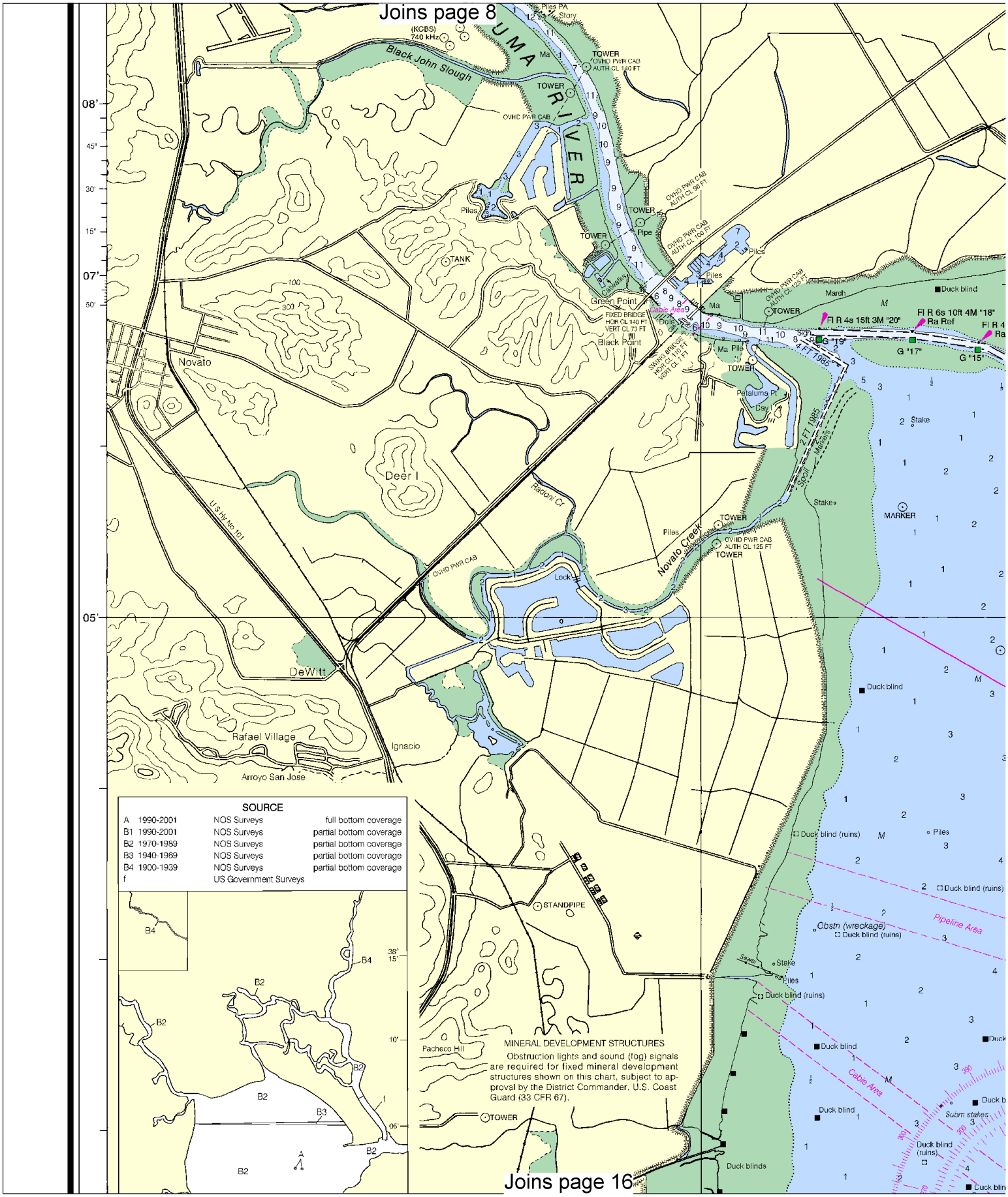
~~SCALE 1:40,000~~
Nautical Miles
1 ½ 0 1 2 3
Yards
1000 0 1000 2000 3000 4000 5000

See Note on page 5.


Joins page 5
Joins page 10
Joins page 13
Point Orient
Hercules, Refugio Landing
Mare Island, Carquinez Strait
Petaluma River Entrance
Sonoma Creek
(Jan 2008)
RADAR REFLECTORS
CAUTION
Cable Area
Ramal
Merazo
Wingo
McGill
Fairville
Tubbs
Scars Point
Bush Slough
Third Napa Slough
Second Napa Slough
Rainbow Slough
Huichica Cr
Huderman Slough
Napa Slough
South Slough
Sonoma Creek
Tolay Creek
N W P RR
SKAGGS ISLAND
LITTLE ISLAND
TUBBS ISLAND
China
Marsh
Stumps
Piles
Pile
Stakes
Snag
Obstn
TANK
TOWER
R TR
OVHD PWR CAB
OVHD PWR CABS
BASCULE BRIDGE
HOR CL 64 FT
HOR CL 44 FT (OPEN)
VERT CL 3 FT
FIXED BRIDGE &
OVHD PIPELINE
HOR CL 14 FT
VERT CL 3 FT
FIXED BRIDGE
HOR CL 61 FT
VERT CL 29 FT
OVHD PWR CAB
AUTH CL 35 FT
OVHD PWR CAB
AUTH CL 41 FT
FIXED BRIDGE
HOR CL 65 FT
VERT CL 19 FT
OVHD PWR CABS
AUTH CL 47 FT
(see note D)
Subm pile
Subm stump
Subm snag
Subm piles
Mudshipman Pt


Point Orient (37°58'N/122°26'W) 6.0
Hercules, Refugio Landing (38°01'N/122°18'W) 6.1
Mare Island, Carquinez Strait (38°04'N/122°15'W) 5.9 5.3 1.0
Petaluma River Entrance (38°07'N/122°30'W) 6.1 5.6 1.0
Sonoma Creek (38°09'N/122°24'W) 5.6 5.0 0.8
Dashes (- - -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.
(Jan 2008)
Joins page 6
ANNUAL DECREASE 6
Ramal
Merazo
Pilos
OVHD PWR CAB
BASCULE BRIDGE
HOR CL 64 FT
HOR CL 44 FT (OPEN)
VERT CL 3 FT
Wingo
Piles
Third Napa Slough
OVHD PWR CABS
AUTH CL 47 FT
Cable Area
Hudeman Slough
(see note D)
Hutchica Cr
FIXED BRIDGE &
OVHD PIPELINE
HOR CL 14 FT
VERT CL 3 FT
TANK
Rainbow Slough
McGill
Pile
Stakes
Quarries
Second Napa Slough
Snag
Stump
Napa Slough
Ruins
Coon Island
Fly
Fairville
Bush Slough
R TR
SKAGGS ISLAND
LITTLE ISLAND
Devils Slough
China Slough
Joins page 9
Sonoma Creek
Napa Slough
OVHD PWR CAB
AUTH CL 41 FT
FIXED BRIDGE
HOR CL 65 FT
VERT CL 19 FT
ISLAND NO 2
South Slough
Tubbs
Marsh
Obstn
FIXED BRIDGE
HOR CL 61 FT
VERT CL 20 FT
OVHD PWR CAB
AUTH CL 52 FT
TOWER
OVHD PWR CABS
OVHD PWR CAB
AUTH CL 35 FT
OVHD PWR CAB
AUTH CL 125 FT
TUBBS ISLAND
Stake
Subm pile
Subm stump
Subm snag
Subm piles
Joins page 14
10
North
Printed at reduced scale.
SCALE 1:40,000
Nautical Miles
1 ½ 0 1 2 3
Yards
1000 0 1000 2000 3000 4000 5000
See Note on page 5.


Joins page 7
Fl G 4s 15ft 4M "15"
Bull I
Steamboat Slough
Numerous Snags
Salt evaporators
Ramp
AERO
Rotating W&G
Fagan Cr
Fagan Slough
LIFT BRIDGE
HOR CL 157 FT
VERT CL 2 FT DOWN
VERT CL 97 FT UP
Cable Area
Brazos
Napa County
Airport
Q 12ft "14" Ra Ref
Iso 6s 17ft Ra Ref
UP RR
Edgerley I
Green I
Mooring Area
Mud Slough
Fl G 4s 15ft 4M "13"
Squab
Salt evaporators
Lombard
UP RR
Napa Junction
Oat Hill
Goodluck Pt
Pipes
Piles
Fl R 4s 15ft 3M "8"
Fl G 4s 15ft 4M "11"
Snags
Stake
Fl G 2.5s 15ft 3M "9"
Numerous snags
NAPA RIVER
Fl G 4s 15ft 4M "7"
RUSSIAN ISLAND
Collins
American Canyon Cr
OVHD PWR CAB
AUTH CL 125 FT
TOWER TR
TOWER
Slaughterhouse Pt
Q 10ft
Priv
Piling
Ruins
Chabot Terrace
Sonoma Blvd
Obstn
Fl G 4s 19ft 4M "3"
South Slough
(see note D)
KNIGHT
ISLAND
Lake Chabot
Flosden
Piles
Permanente Foundation
Hospital
Knights
Sewer
Dutchman Slough
(see note D)
Marsh
HWY 37 FIXED BRIDGE
HOR CL 140 FT
VERT CL 100 FT
Mooring Area
Pipe
Dols
Vallejo Hei
Butchertown
SF & NV RR
NOTE C
High speed ferries operate in the San Francisco
Bay. Mariners are cautioned that these craft move
very rapidly and may transit waterways at angles to
Joins page 15
10'
08'
45'
30'
15'
07'



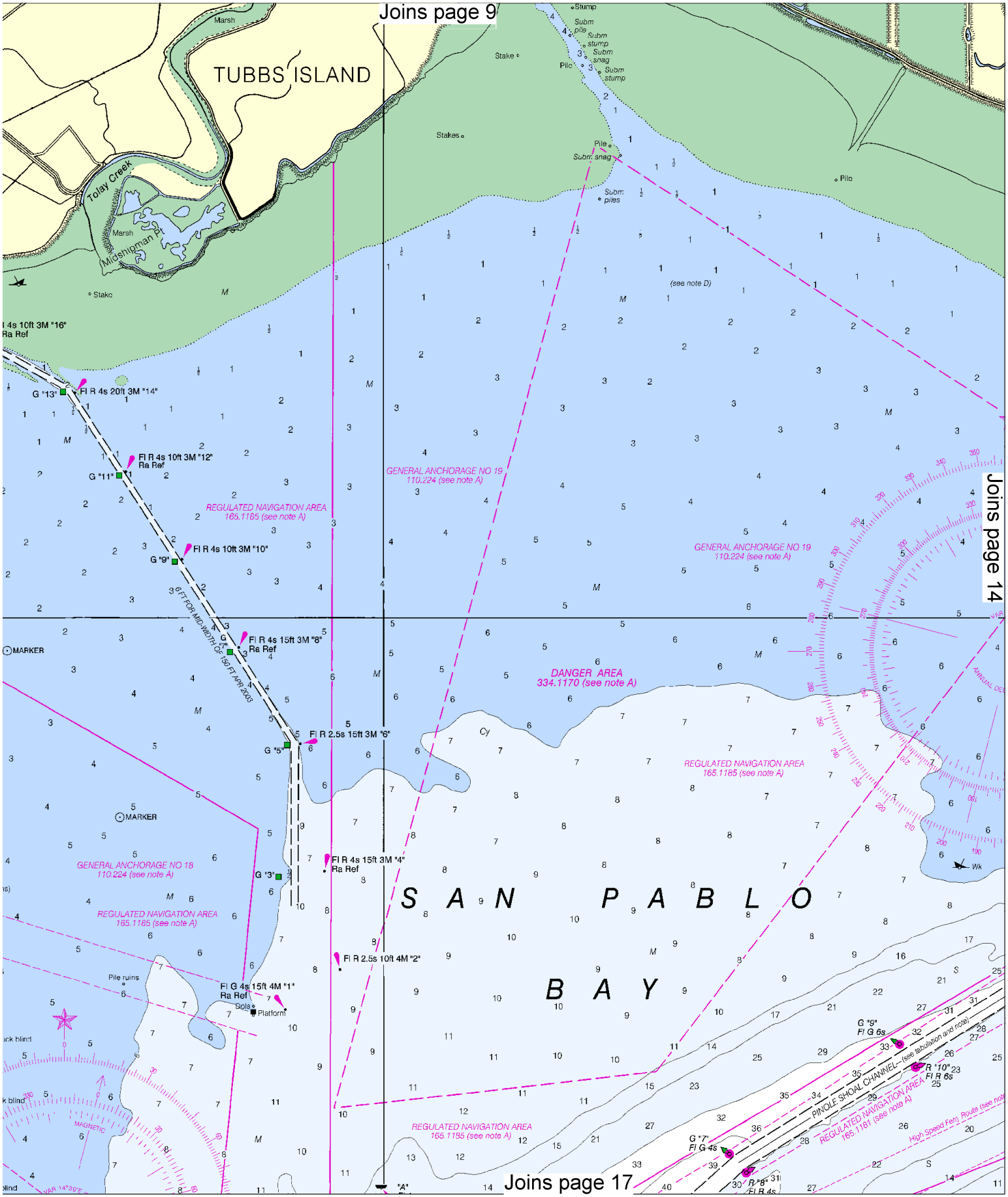
North

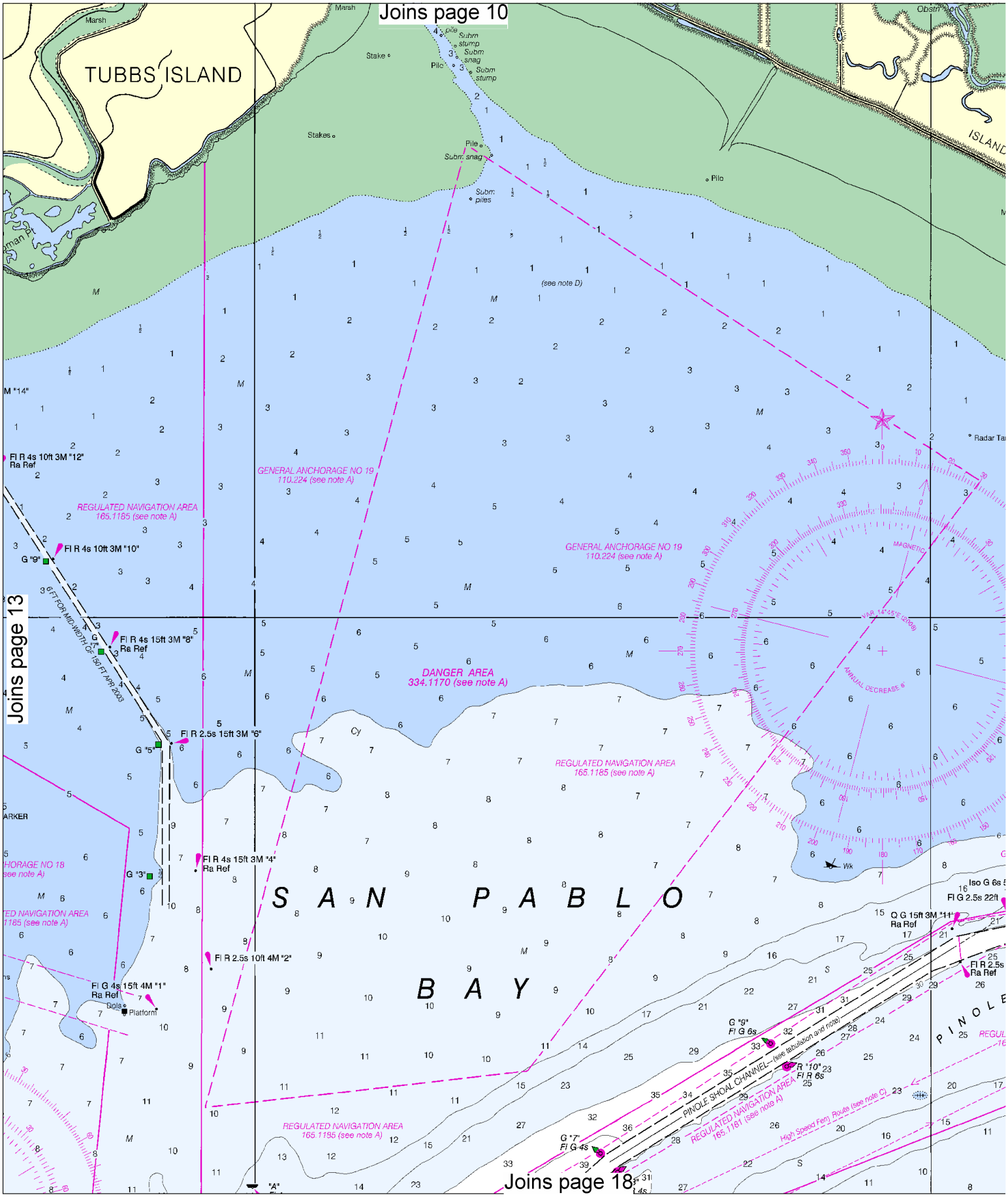
Printed at reduced scale. ~~SCALE 1:40,000~~

Nautical Miles: 1 ½ 0 1 2 3

Yards: 1000 0 1000 2000 3000 4000 5000

See Note on page 5.


Joins page 9
TUBBS ISLAND
Tolay Creek
Marsh
Midshipman Pt
Marsh
Stake
Stakes
Pile
Subm snag
Subm piles
Stump
Subm pile
Subm stump
Subm snag
Subm stump
(see note D)
G "13"
Fl R 4s 20ft 3M "14"
Fl R 4s 10ft 3M "12"
Ra Ref
G "11"
GENERAL ANCHORAGE NO 19
110.224 (see note A)
REGULATED NAVIGATION AREA
165.1185 (see note A)
Fl R 4s 10ft 3M "10"
G "9"
6 FT FOR MID-WIDTH OF 150 FT APR 2003
Fl R 4s 15ft 3M "8"
Ra Ref
MARKER
DANGER AREA
334.1170 (see note A)
Fl R 2.5s 15ft 3M "6"
G "5"
MARKER
GENERAL ANCHORAGE NO 18
110.224 (see note A)
REGULATED NAVIGATION AREA
165.1185 (see note A)
Fl R 4s 15ft 3M "4"
Ra Ref
G "3"
S A N P A B L O
B A Y
Fl R 2.5s 10ft 4M "2"
Pile ruins
Fl G 4s 15ft 4M "1"
Ra Ref
Dols
Platform
G "9"
Fl G 6s
PINOLE SHOAL CHANNEL
(see tabulation and note)
R "10"
Fl R 6s
REGULATED NAVIGATION AREA
165.1181 (see note A)
G "7"
Fl G 4s
R "8"
Fl R 4s
REGULATED NAVIGATION AREA
165.1185 (see note A)
Joins page 14
Joins page 17



14

North

Printed at reduced scale. ~~SCALE 1:40,000~~

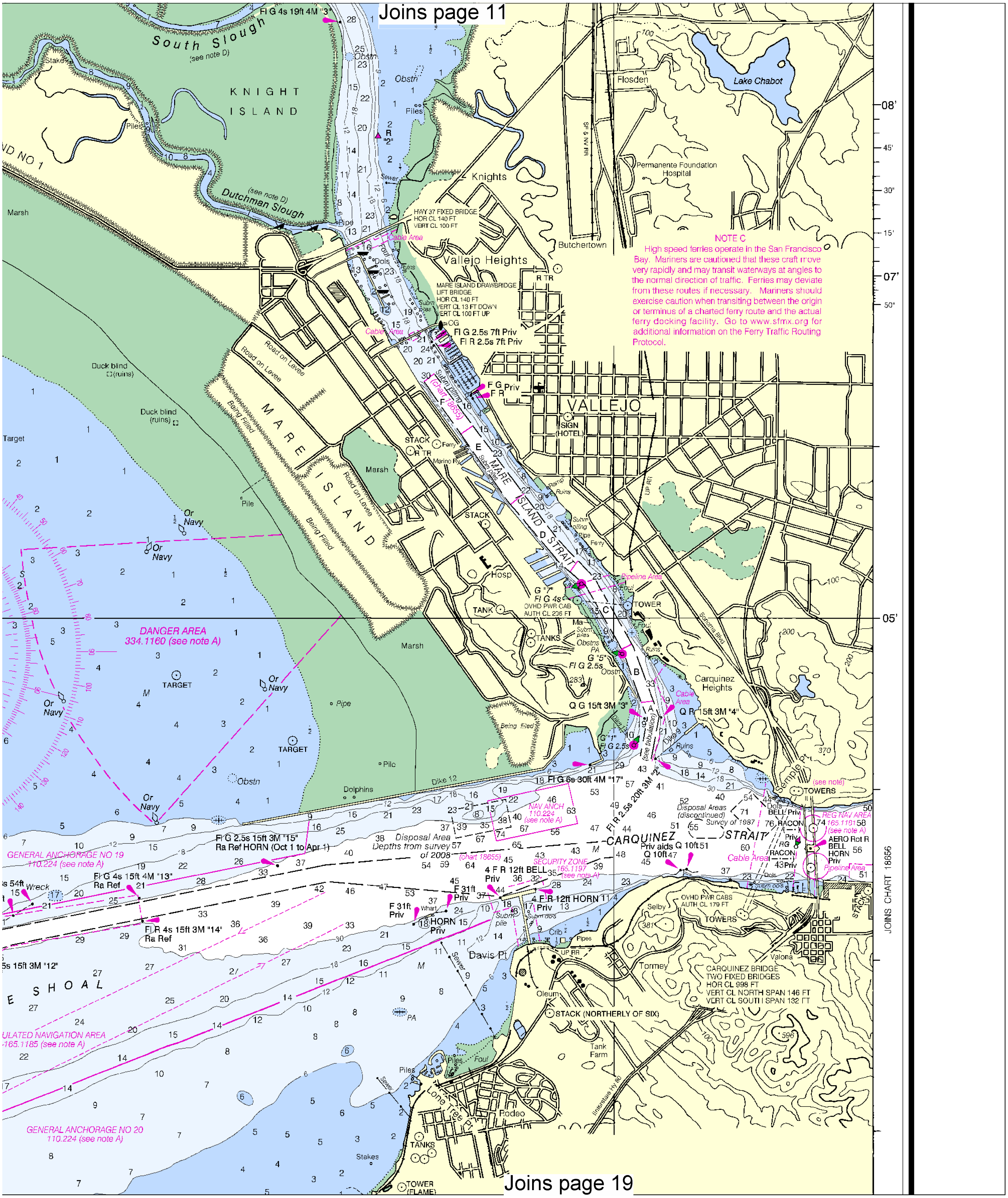
Nautical Miles

1 ½ 0 1 2 3

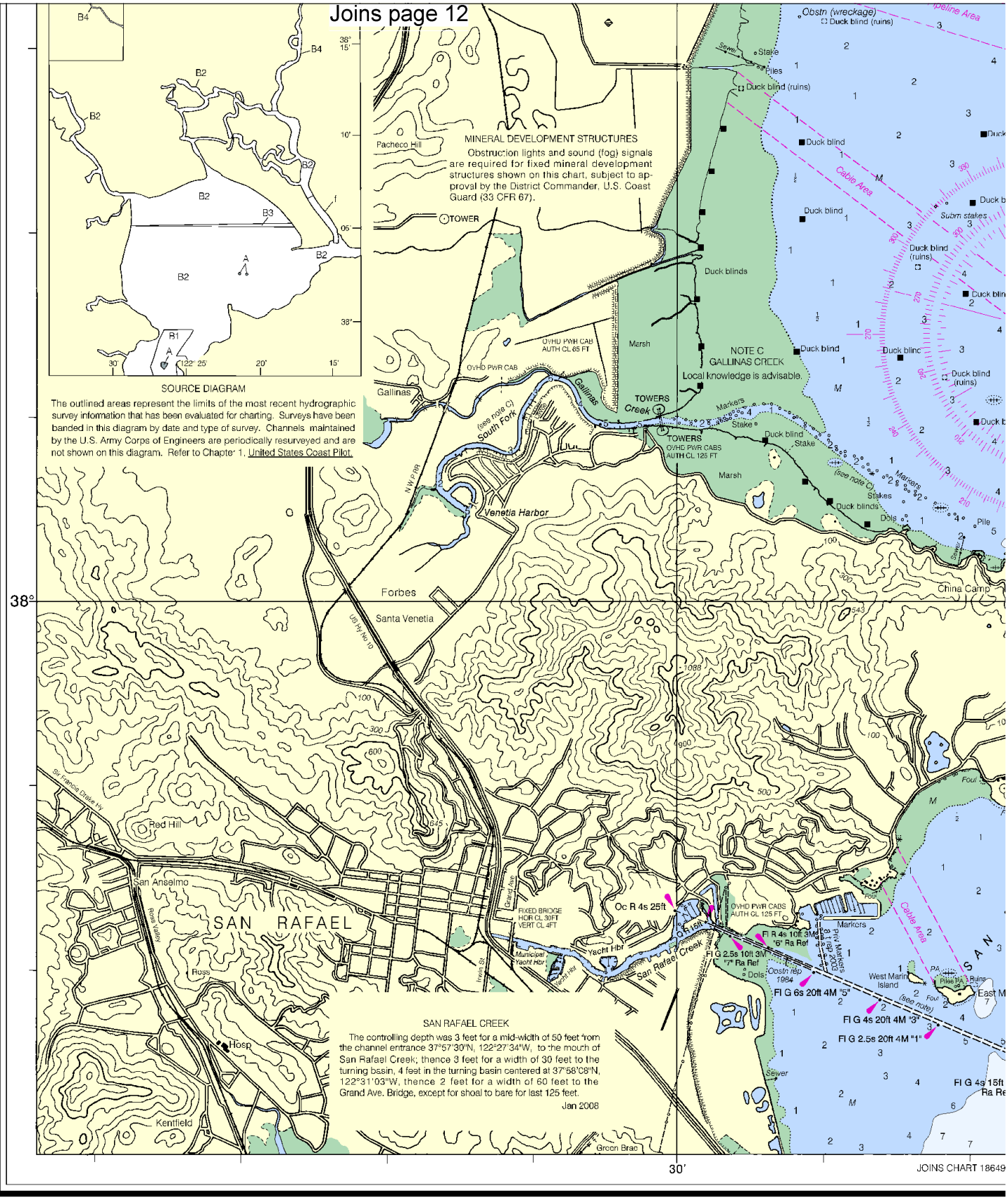
Yards

1000 0 1000 2000 3000 4000 5000

See Note on page 5.



Joins page 11
South Slough
(see note D)
KNIGHT ISLAND
Dutchman Slough
(see note D)
Marsh
Knights
HWY 37 FIXED BRIDGE
HOR CL 140 FT
VERT CL 100 FT
Cable Area
Vallejo Heights
MARE ISLAND DRAWBRIDGE
LIFT BRIDGE
HOR CL 140 FT
VERT CL 13 FT DOWN
VERT CL 100 FT UP
Fl G 2.5s 7ft Priv
Fl R 2.5s 7ft Priv
Flosden
Lake Chabot
Permanente Foundation Hospital
Butchertown
NOTE C
High speed ferries operate in the San Francisco Bay. Mariners are cautioned that these craft move very rapidly and may transit waterways at angles to the normal direction of traffic. Ferries may deviate from these routes if necessary. Mariners should exercise caution when transiting between the origin or terminus of a charted ferry route and the actual ferry docking facility. Go to www.sfmx.org for additional information on the Ferry Traffic Routing Protocol.
VALLEJO
SIGN (HOTEL)
MARE ISLAND
Road on Levee
Being Filled
Duck blind (ruins)
MARE ISLAND STRAIT
STACK
Hosp
TANK
TANKS
TOWER
G "7" Fl G 4s
OVHD PWR CAB AUTH CL 206 FT
Pipeline Area
DANGER AREA
334.1160 (see note A)
TARGET
Or Navy
Carquinez Heights
Q G 15ft 3M "3"
Q R 15ft 3M "4"
Fl G 6s 30ft 4M "17"
Fl R 2.5s 20ft 3M "2"
Dike 12
Dolphins
NAV ANCH 110.224 (see note A)
Disposal Areas (discontinued) Survey of 1987
CARQUINEZ STRAIT
Disposal Area Depths from survey of 2008 (chart 18655)
SECURITY ZONE 165.1197 (see note A)
GENERAL ANCHORAGE NO 19 110.224 (see note A)
Fl G 2.5s 15ft 3M "15" Ra Ref HORN (Oct 1 to Apr 1)
Fl G 4s 15ft 4M "13" Ra Ref
Fl R 4s 15ft 3M "14" Ra Ref
4 F R 12ft BELL
4 F R 12ft HORN
Priv aids Q 10ft
REG NAV AREA 165.1181 (see note A)
AERO Rot R BELL HORN Priv
RACON
OVHD PWR CABS AUTH CL 179 FT
TOWERS
Selby
Tormey
Valona
CARQUINEZ BRIDGE
TWO FIXED BRIDGES
HOR CL 998 FT
VERT CL NORTH SPAN 146 FT
VERT CL SOUTH SPAN 132 FT
Davis Pt
Oleum
STACK (NORTHERLY OF SIX)
Tank Farm
Lone Tree Pt
Rodeo
TANKS
TOWER (FLAME)
GENERAL ANCHORAGE NO 20 110.224 (see note A)
JOINS CHART 18656
Joins page 19



44th Ed., Jan./ 08 ■ Corrected through NM Jan. 26/08
Corrected through LNM Jan. 15/08

18654

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

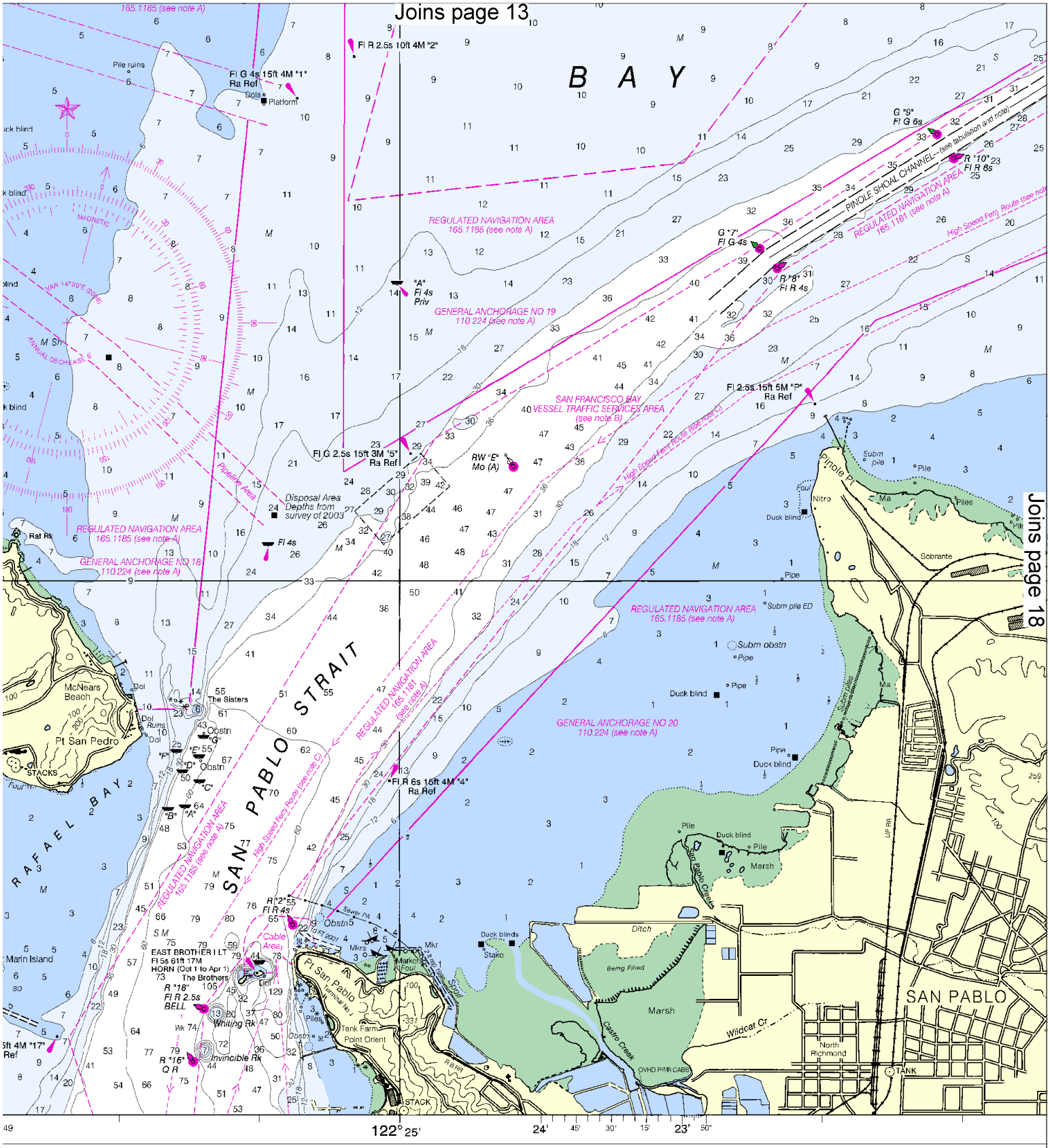
North

Printed at reduced scale. ~~SCALE 1:40,000~~

Nautical Miles: 1 ½ 0 1 2 3

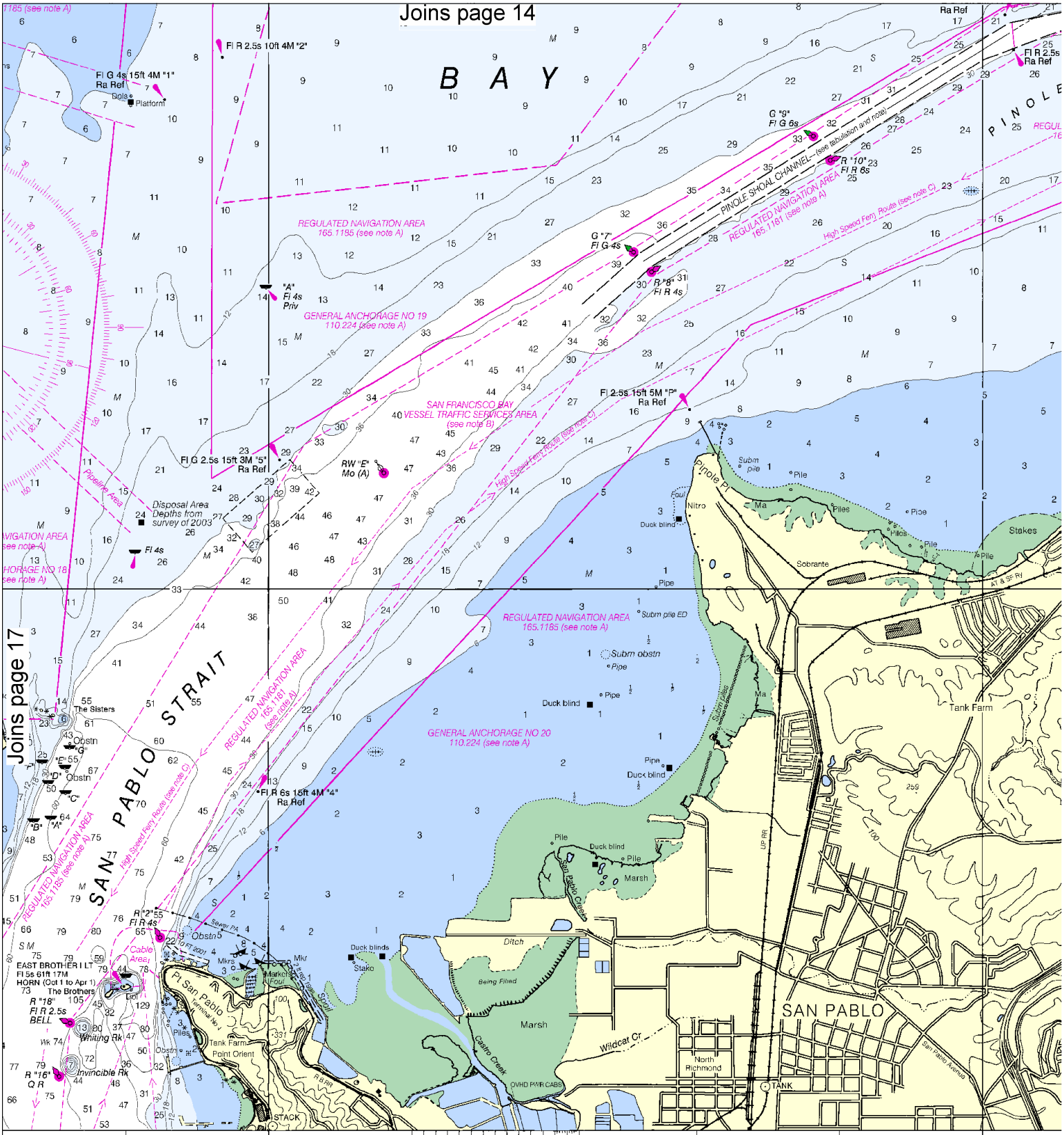
Yards: 1000 0 1000 2000 3000 4000 5000

See Note on page 5.



SOUNDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY



NDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

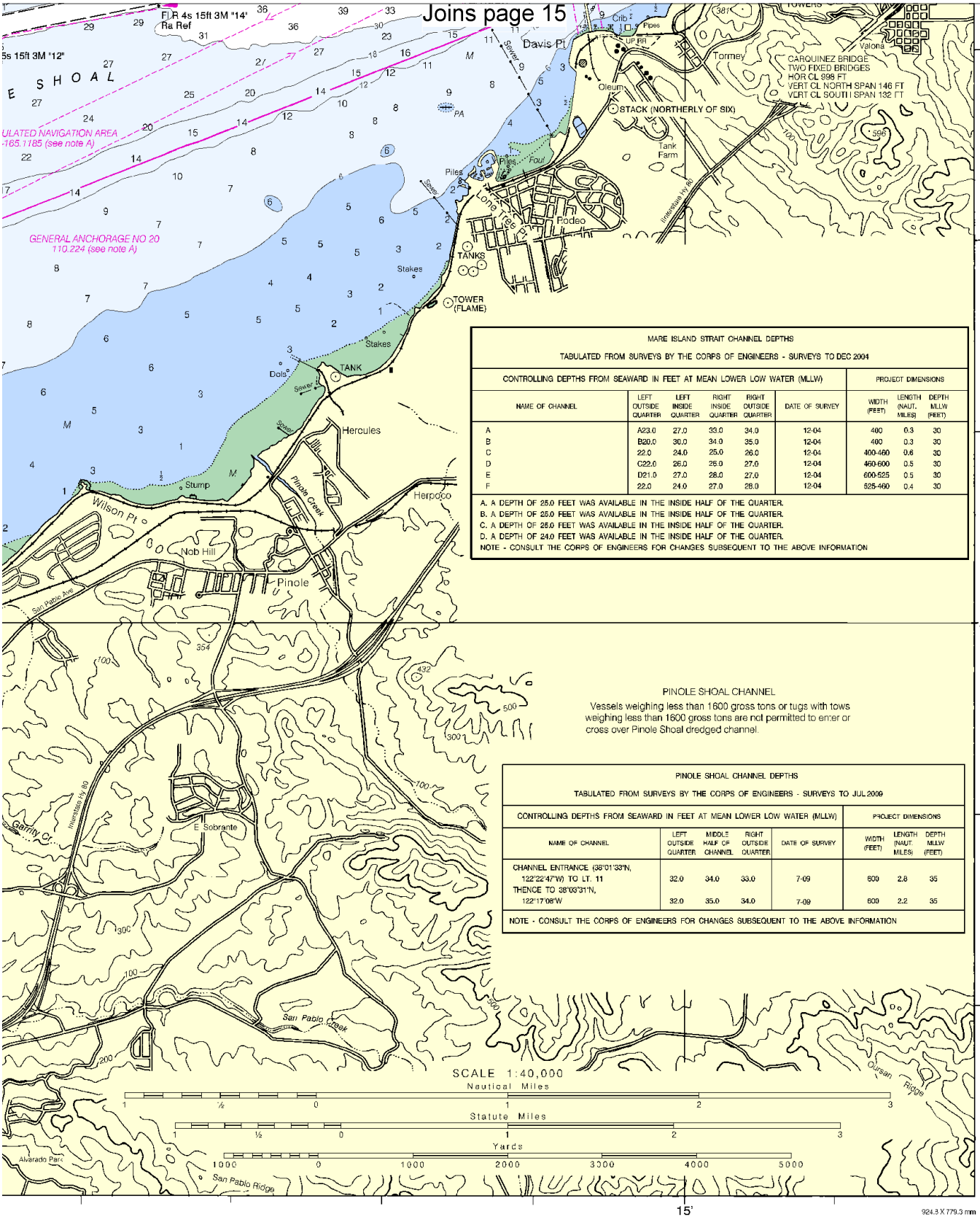
FATHOMS
FEET
METERS

North

Printed at reduced scale. ~~SCALE 1:40,000~~ See Note on page 5.

Nautical Miles: 1 ½ 0 1 2 3

Yards: 1000 0 1000 2000 3000 4000 5000



MARE ISLAND STRAIT CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO DEC 2004

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A	A23.0	27.0	33.0	34.0	12-04	400	0.3	30
B	B20.0	30.0	34.0	35.0	12-04	400	0.3	30
C	22.0	24.0	25.0	26.0	12-04	400-460	0.6	30
D	C22.0	26.0	25.0	27.0	12-04	460-600	0.5	30
E	D21.0	27.0	28.0	27.0	12-04	600-525	0.5	30
F	22.0	24.0	27.0	28.0	12-04	525-460	0.4	30

A. A DEPTH OF 25.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 25.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 25.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 24.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

PINOLE SHOAL CHANNEL

Vessels weighing less than 1600 gross tons or tugs with tows weighing less than 1600 gross tons are not permitted to enter or cross over Pinole Shoal dredged channel.

PINOLE SHOAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2009

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL ENTRANCE (38°01'33"N, 122°22'47"W) TO LT. 11	32.0	34.0	33.0	7-09	600	2.8	35
THENCE TO 38°03'31"N, 122°17'08"W	32.0	35.0	34.0	7-09	600	2.2	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SCALE 1:40,000

Nautical Miles

Statute Miles

Yards

924.3 X 779.3 mm

ED. NO. 44

NSN 7642014011525 NGA REFERENCE NO. 18AHA18654

San Pablo Bay

SOUNDINGS IN FEET - SCALE 1:40,000

18654

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.
Coast Guard Search & Rescue – 510-437-3700
Coast Guard San Francisco – 415-399-3479
Commercial Vessel Assistance – 1-800-367-8222

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

NOAA, The Nation's Chartmaker

NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs™) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts™ – BookletCharts™ are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts™ – PocketCharts™ are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.